

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| In re the Application of: | : |
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| Kevin Kwong-Tai CHUNG | : Art Unit: 3634 |
| | : |
| Appl. Serial No. 09/915,122 | : Examiner: Khoa Tran |
| | : |
| Filed: July 25, 2001 | : Confirmation No. 5758 |
| | : |
| For: CARRIER TAPE | : |

TO: EXAMINER KHOA TRAN — FAX No. 703-746-3699

INFORMAL SUBMISSION

This Informal Submission is provided in advance of a **Telephone Interview** scheduled for **April 7, 2004 at 1:00 p.m.** Applicant will telephone the Examiner at **703-306-3437**. An Office Action was mailed December 30, 2003 in the above-captioned Application.

Please consider the following proposed amended claims:

1. (Proposed) A re-usable carrier structure for carrying an article, comprising
a carrier base having at least a portion thereof transparent to electromagnetic radiation,
a surface of said carrier base having different surface properties from a surface of the article, and
said carrier base being stable to resist deformation by heat at temperatures less than or equal to about 80°C; and
a tacky adhesive layer disposed on said carrier base,
said adhesive layer being cross-linkable by electromagnetic radiation, by heat, or by both heat and electromagnetic radiation, for decreasing the adhesion thereof, and
said adhesive layer after being cross-linked having a different release profile from the surface of the article than from the surface of said carrier base, wherein the article ~~may be removed~~ is removable leaving said adhesive layer adhering to said carrier base, and wherein said adhesive layer ~~may be removed~~ is removable from said carrier base and said carrier base ~~may~~ is available to be reused.

10. (Proposed) A re-usable carrier structure comprising:
a carrier base, said carrier base having at least a portion thereof transparent to electromagnetic radiation, and
said carrier base being stable to resist deformation by heat at temperatures less than or equal to about 80°C; and
an adhesive laminate disposed on a surface of said carrier base, said adhesive laminate comprising:
an adhesive base;
a first adhesive layer disposed on a first surface of said adhesive base for

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removably connecting said carrier base and said adhesive base; and
a second adhesive layer disposed on a second surface of said adhesive base for providing a tacky carrier surface,
said second adhesive layer being cross-linkable by electromagnetic radiation, by heat, or by both heat and electromagnetic radiation, for decreasing the tackiness thereof,
wherein an article carried on the carrier surface is released when said second adhesive layer is cross-linked by electromagnetic radiation applied through the transparent portion of the carrier base, by heat, or by both heat and electromagnetic radiation, leaving said adhesive laminate on said carrier base, and wherein said adhesive laminate ~~may be removed~~ is removable from said carrier base and said carrier base ~~may~~ is available to be reused.

20. (Proposed) A re-usable carrier structure comprising
a carrier base having at least a portion thereof transparent to electromagnetic radiation, and
said carrier base being stable to resist deformation by heat at temperatures less than or equal to about 80°C;
a first adhesive layer removably disposed on a surface of said carrier base; and
a second adhesive layer disposed on said first adhesive layer for providing a tacky carrier surface, and
said second adhesive layer being cross-linkable by electromagnetic radiation, by heat, or by both heat and electromagnetic radiation, for decreasing the tackiness thereof,
wherein an article carried on the carrier surface is released when said second adhesive layer is cross-linked by electromagnetic radiation applied through the transparent portion of the carrier base, by heat, or by both heat and electromagnetic radiation, leaving the first and second adhesive layers on said carrier base, and
wherein said first and second adhesive layers ~~may be removed~~ is removable from said carrier base and said carrier base ~~may~~ is available to be reused.
30. (Proposed) A re-usable carrier structure for carrying one or more objects, said re-usable carrier comprising:
a base layer,
wherein at least a portion of said base layer is transparent to electromagnetic radiation,
wherein said base layer is formed of a material that is stable at temperatures less than about 80°C; and
an adhesive layer disposed on said base layer for adhesively holding one or more objects,
wherein said adhesive layer becomes cross-linked upon exposure to electromagnetic radiation applied through the transparent portion of the base layer thereby to exhibit a reduction of adhesiveness,
wherein the reduction of adhesiveness to the one or more objects exceeds the reduction of adhesiveness to said base layer,

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wherein one or more objects carried on said adhesive layer are released when said adhesive layer is cross-linked by exposure to electromagnetic radiation applied through the transparent portion of the base layer, and said adhesive layer ~~may be removed~~ is removable from said base layer and said base layer ~~may~~ is available to be reused.

35. (Proposed) A re-usable carrier for releasably carrying one or more objects, said re-usable carrier comprising:

a carrier structure having a support member and adapted for receiving a cover;

a carrier base disposed on the support member of said carrier structure, wherein at least a portion of said carrier base is transparent to ultraviolet radiation, and wherein said carrier base is formed of a material that is stable at temperatures less than about 80°C; and

a cross-linkable tacky adhesive layer disposed on said carrier base for adhesively holding one or more objects, wherein said adhesive layer becomes cross-linked upon exposure to ultraviolet radiation applied through the transparent portion of said carrier base layer thereby to exhibit a reduction of adhesiveness, wherein the reduction of adhesiveness to the one or more objects is more than about 70% and exceeds the reduction of adhesiveness to said carrier base, and

a cover disposed on said carrier structure, wherein said cover is of a material opaque to ultraviolet radiation for blocking ultraviolet radiation from cross-linking said cross-linkable tacky adhesive layer,

wherein one or more objects carried on said adhesive layer are released when said cover is removed and said adhesive layer is cross-linked by exposure to ultraviolet radiation applied through the transparent portion of the carrier base, and said adhesive layer ~~may be removed~~ is removable from said carrier base and said carrier base ~~may~~ is available to be reused.

Applicant desires to discuss US 6,491,781 to Kreckel et al, US 4,994,322 to Delgado et al, US 5,723,191 to Plamthottam et al, and US 4,894,283 to Wehr.

Respectfully submitted,
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April, 1, 2004

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